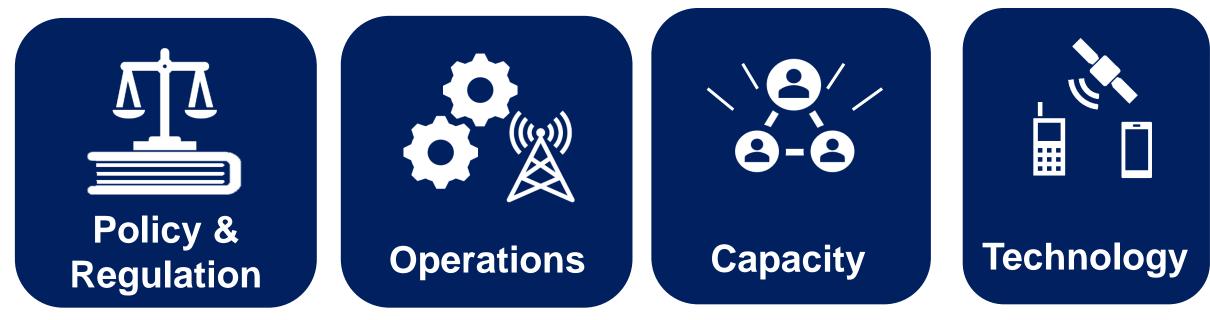




SMART SEAS PROJECT: TT MRCC Countries

- Joint initiative of the ITU, CTU & TATT, supported by the Government of the Republic of Trinidad and Tobago (GoRTT)
- To increase the resilience of small-scale fishers through ICTs with emphasis on the enabling environment



Transferable: other sectors & marginalized communities | Extensible: Caribbean & world-wide

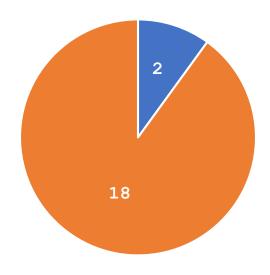
Gaps in ITU Notification Compliance

No. 20.16 of the ITU's Radio Regulations (RRs):

"Administrations **shall** take all appropriate measures to **notify** the Radiocommunication Bureau immediately of any changes in the operational information contained in **Lists IV** and **V**, in view of the importance of this information, particularly with regard to safety."

Country	Status	Country	Status
Anguilla	×	Jamaica	✓
Antigua and Barbuda	×	Montserrat	×
Barbados	×	St. Kitts and Nevis	×
Belize	×	Saint Lucia	×
British Virgin Islands	×	St. Maarten	×
Cayman Islands	×	St. Vincent and the Grenadines	×
Cuba	×	Suriname	✓
Dominica	×	The Bahamas	×
Grenada	×	Trinidad and Tobago	×
Corre		The sale of the sale	.,

MARS Notification Status (List IV)

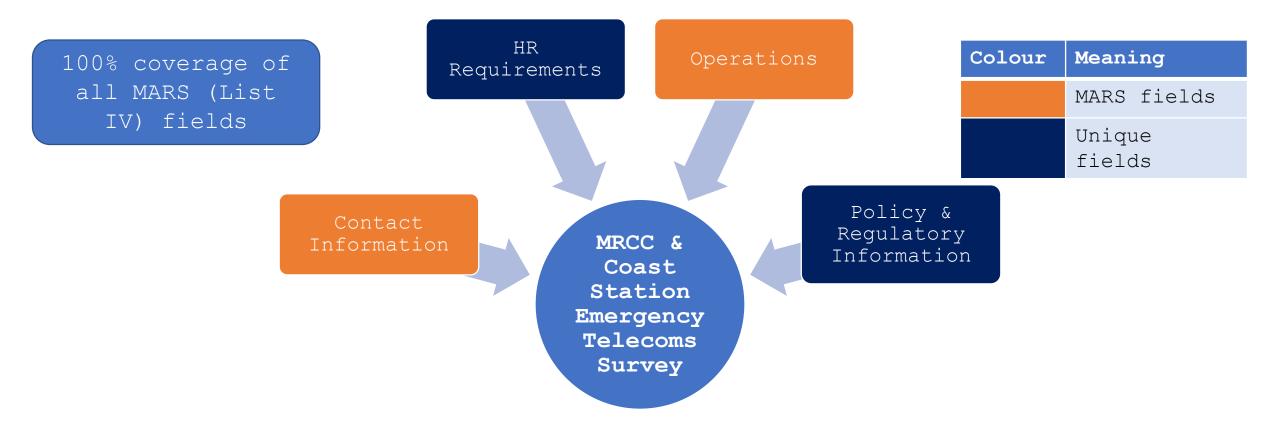


■ Have Notified ■ Have Never Notified

List IV: <u>Coast Stations</u> and Special Service Stations

List V: Ship Stations and Maritime Mobile Service Identity Assignments

Smart Seas: MRCC & CS Survey



MRCC & CS Survey Outputs

- 1. A registry and map of coast stations and MRCCs in the Caribbean
- 2. Simulations of coast station and MRCC radio coverage
- 3. Checklists of resources in place, vis-à-vis those essential, for the effective operation and maintenance of these stations

Survey Artefacts



METHODOLOGICAL GUIDEBOOK FOR MRCC & COAST STATION EMERGENCY TELECOMMUNICATIONS SURVEY

UNDER THE SMART SEAS TOOLKIT FOR DISASTER RESILIENCE PROJECT

23 FEBRUARY 2022

MARITIME RESCUE COORDINATION CENTRE (MRCC) & COAST STATION SURVEY

PRE-SURVEY INFORMATION & CONSENT FORM

The Spectrum Management Task Force ("SMTP") provides key input into the development of regionally harmonized policies for the planning and management of the radio-communication spectrum. As a technical group convened by the Caribbean Telecommunications Union, SMTF's work contributes to ICT-enabled cooperation and development in the Caribbean. This survey on national coast stations and maritime rescue coordination centres (MRCCs) sets out to eather key data to ultimately strengthen communications resilience in the marine environment for improved safety at

The survey findings will be used to:

- Identify gaps within existing policy, regulatory and capacity provisions and to formulate gap-filling measures.
- Gather the data required to populate a registry of, and map, the coast stations and MRCCs, as emergency contacts for Caribbean seafarers
- Gather the data required to simulate and estimate radio coverage by the coast stations and MRCCs within the region
- identify the resources (human, infrastructure, policy and regulatory) used to operate and maintain coast stations and MRCCs within the region Identify, after analysis of the survey's results, the baseline resources required to operate and maintain Caribbean coast stations and MRCCs
- Identifying key areas for research, and inform future decisions and spectral planning by regulators and policy makers

- This survey therefore sets out to gather the following data from national coast stations and MRCCs within CTU member states:
- 1. General coast station/MRCC information
- 2. Station personnel
- 3. RF equipment
- 4. Operations
- 5. National maritime communications policy and regulatory provisions

National coast stations and MRCCs within the Caribbean. Station managers may be able to complete the form, but may require support from technical staff to complete Sections 3 - 5.

COUNTRIES SURVEYED

CTU member states

- 1. enter all responses in English (in BLOCK LETTERS if handwritten)
- 2. provide all positions in degrees, minutes, decimal-minutes notation
- 3, email Nigel.Cassimire@ctu.int for additional questions and concerns

Participation in this study is voluntary, and may be refused or terminated at any point, by the respondents. Any further questions, concerns and recommendations can be posed to Mr. Nigel Cassimire of the CTU, at: nigel.cassimire@ctu.int.

- This survey will benefit all respondents, seafarers, regulators and policy makers, by producing a resource pack, which include but are not limited to: - A registry of coast stations and MRCCs within the Caribbean
- A simulated coverage map of coast stations and MRCCs within the Caribbean
- A registry of channel usage within the marine band, including primary working channels for all coast stations (other than VHF channel 16) - An inspection checklist, for coast station and MRCC equipment
- A policy brief, with recommendations to improve the state of emergency communications provisions offered by existing coast stations and MRCCs within the Caribbean
- Print-ready, wallet-sized call card design with MRCC and coast station contact details by country, for printing and distribution by fisherfolk
- An output report, which includes the above artefacts, along with a coverage analysis and recommendations to fill any uncovered gaps based on

This survey poses minimal risks to the parties involved, as the data collected should not pose any threats to the participants' operations.



USER GUIDEBOOK FOR MRCC & COAST STATION **EMERGENCY TELECOMMUNICATIONS SURVEY**

UNDER THE SMART SEAS TOOLKIT FOR DISASTER RESILIENCE PROJECT

23 FEBRUARY 2022

Rollout Status

Complete In Progress In Progress Phase 2: Phase 3: Phase 1: Deployment to Deployment to Survey Review Smart Seas all other CTU by SMTF Countries Member States • All three • Survey issued to • Survey to be issued artefacts reviewed all four Smart Seas to remaining CTU by SMTF countries1 member states • recommendations • Belize submitted • status presented

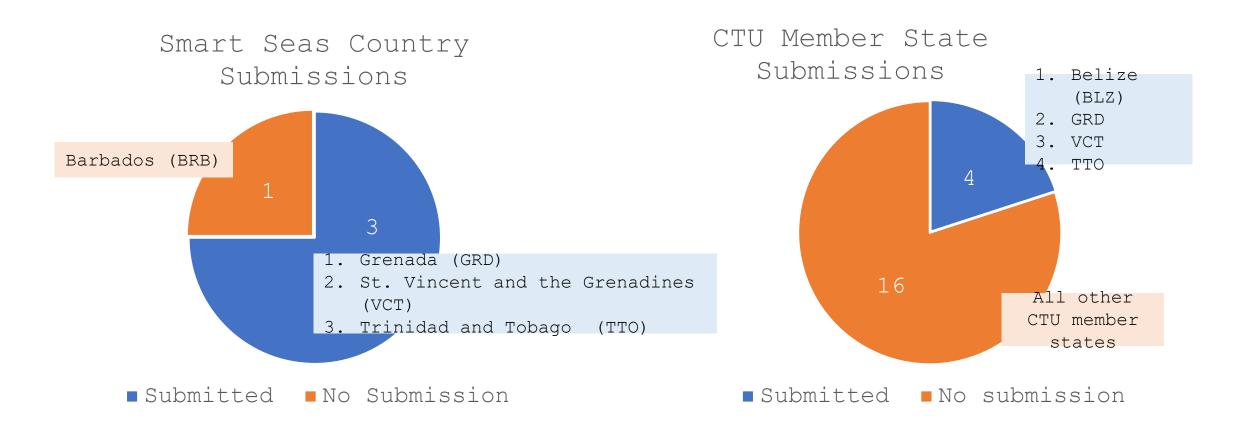
in following slides

used in artefact

revision

draft response

Submission Status



Completion Status

Country	# Submissions	<pre># Complete Submissions</pre>
BLZ	1	0
GRD	1	0
VCT	2	0
TTO	4	0
Perce	nt complete	0

Completion status notes:

- 1. BLZ: submission needs to be updated using updated survey instrument
- 2. GRD: station under construction; submission to be updated following completion
- 3. VCT: station equipment and station operations not specified; awaiting information from Coast Guard
- 4. TTO: awaiting revisions from stations to be considered complete

Summary of Findings

Country	Findings
GRD	 2 stations on the island, both under construction Plans to establish a MRSC², within the TTO MRCC
VCT	2 stations on the islandOperated by the VCT coast guard and signal station
TTO	 9 stations identified by TATT through their licensing database Only 4 have submitted responses thus far North Post Radio Station performs MRCC comms operations on behalf of the Trinidad and Tobago Coast Guard At least 1 limited coast station's callsign & MMSI not within TTO ITU assignments (see next slide)

² Maritime rescue sub-centre

Sample Output: Station Register

Country	Station Name Station	Station	Countries of Responsibilit Y		Sea Area	Station Contact Details		
		Type ³		Agency Responsible	Sea Area	Phone No.	Callsig n	MMSI
BLZ	National Maritime Comm Center	NCS	BLZ	Belize Port Authority	A1	+ (501) 222- 5666	TBD	TBD
GRD	Grenada GMDSS	NCS	GRD	National Telecommunications Regulatory Commission	TBD	+(473) 405-2362	TBD	TBD
VCT	St. Vincent Signal Station	LCS	VCT	SVG Port Authority	TBD	+1 (784) 456- 1165	TBD	TBD
	Coast Guard	NCS	VCT	Coast Guard Service	A1, A2	+1 (784) 457-4578	J8B	TBD
	Coast Guard Control	MRCC		Trinidad and Tobago Coast Guard	A1, A2, A3	+1 (868) 634- 8824	9YA	003621111
	North Post Radio Station	NCS	· ·	Telecommunications Services of Trinidad and Tobago	A1, A2, A3	+1 (868) 637-4474	9YL	003621001
	TBD	LCS	TTO	ВНР	A1	TBD	TBD	TBD
	TBD	LCS	TTO	Oldendorff Carriers Trinidad & Tobago Ltd.	TBD	224-8506	D5IX54	636017017 4

³ Station Types: (i) NCS - National Coast Station (ii) LCS - Limited Coast Station (iii) MRCC - Maritime Rescue Co-ordination Centre

⁴ Not a valid MMSI/callsign based on TTO assignments for LCS: coast station MMSI format: 00362XXXX; Callsign: between 9YR20-9YR99

Next Steps

Completion of survey by Smart Seas countries



TATT's submission of completed survey to ITU's BR4



BR's formal approval of MRCC survey submission to count as MARS notification



Rollout to non-Smart Seas countries particularly those without Spectrum Center



Population and finalization of all survey outputs: registry and map of coast stations and MRCCs, simulations of coverage, checklists for stations



Spectrum Center vs Smart Seas MRCC & CS Survey

	Spectrum Center	Smart Seas MRCC & CS Survey
Capacity	Unlimited external business users	Unlimited
Cost	Billed monthly or annually based on plan	Free
ITU radio services	Support all ITU radio services	Specific towards maritime comms
Supported Requests	 New frequency authorizations Modification to existing frequency authorizations Cancellation of existing frequency authorizations Change of company name License/Authorization transfers New Equipment Type Approval authorizations 	 identify and assess gaps in regulatory compliance and regional harmonization Facilitate List IV MARS notifications

TT MRCC Notifying Agencies

CTU Member state	Notifying Agency	Point Contact Name	Point Contact Email	Agency Email	Agency Phone Contact
Barbados	Telecom Unit, Ministry of Innovation Science and Smart Technology	George Foster	George.foster@barbados. gov.bb	-	1 (246) 310- 1300
Grenada	National Telecommunications Regulatory Commission (NTRC)	TBD	TBD	gntrc@ntrc.gd	1 (829) 732- 5555
St. Vincent and the Grenadines	Maritime Affairs of St. Vincent and the Grenadines	TBD	TBD	ntrc@ntrc.vc	(784) 456-1378
Trinidad & Tobago	Telecommunications Authority of Trinindad and Tobago	Cynthia Reddock- Downes	crdownes@tatt.org.tt	-	1 (868) 675- 8288